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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,015	11/26/2003	Alexei A. Erchak	L0655.70027US01	7556
72576	7590 12/28/2007	•	EXAMINER	
LUMINUS DEVICES , INC. C/O WOLF, GREENFIELD & SACKS , P.C.			WILLIAMS, JOSEPH L	
600 ATLANTI BOSTON, MA	· · · · - · - · · - · · · ·		ART UNIT PAPER NUMBER 2879	
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				DEL WERV MODE
			MAIL DATE	DELIVERY MODE
			12/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)					
Office Action Community	10/724,015	ERCHAK, ALEXEI A.					
Office Action Summary	Examiner	Art Unit					
	Joseph L. Williams	2879	_				
The MAILING DATE of this communication appeariod for Reply	ears on the cover sheet with the c	orrespondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (6(a). In no event, however, may a reply be tim (ii) apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this co (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 09 Oc	etober 2007						
	action is non-final.						
, <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) <u>27-54,56,60,63-65,67-91 and 93-106</u> i	s/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	•						
8) Claim(s) <u>27-54,56,60, 63-65,67-91,93-106</u> are	subject to restriction and/or electi	ion requirement.					
Application Papers							
9) The specification is objected to by the Examiner							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 H S C & 110(a)	-(d) or (f)					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office-action for a list of the certified copies not received.							
Attachment(c)		•					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species:

Species I: claims 27-54 and 65.

Species II: claims 56, 60, 63, 64, 67-74, 103, and 104.

Species III: 75-83, 105, and 106.

Species IV: 84-91.

Species V: 93-102.

The species are independent or distinct because the "surface of the first layer has a dielectric function that varies spatially according to a pattern with an ideal lattice constant and a detuning parameter with a value greater than zero" of species I is not required for species II-V:

The "first layer comprises a semiconductor material and a surface of the first layer has a dielectric function that varies spatially according to a non-periodic pattern comprising a plurality of non-concentric holes, a majority of the non-periodic pattern having order; and wherein the light emerging from the light-emitting device via the surface of the first layer is substantially incoherent" of species II is not required for species I and III-V.

The "first layer comprises a semiconductor material and a surface of the first layer has a dielectric function that varies spatially according to a non-periodic pattern Application/Control Number: 10/724,015

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comprising holes being devoid of material within a perimeter defined by the first layer, a majority of the non-periodic pattern having order" of Species III is not required for Species I, II, IV, and V.

The "first layer comprises a semiconductor material and a surface of the first layer has a dielectric function that varies spatially according to a non-periodic pattern comprising a plurality of non-concentric holes; and wherein the non-periodic pattern is configured so that light emerging from the light-emitting device via the first surface is more collimated than a lambertian distribution of light" of species IV is not required for species I-III and V.

The "wherein the first layer comprises a semiconductor material and a surface of the first layer has a dielectric function that varies spatially according to a non-periodic pattern comprising features, a majority of the features having substantially the same size and a majority of the nearest neighbor distances between features being substantially the same" of species V is not required for species I-IV.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim appears generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph L. Williams whose telephone number is (571) 272-2465. The examiner can normally be reached on M-F (6:30 AM-3:00 PM).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Joseph L. Williams Primary Examiner Art Unit 2879